

In the Specification:

Amend paragraph 0001 as follows:

0001. Cross Reference to Related Applications

Similar subject matter is contained in U.S. Application Serial No. 10/736,972 filed December 15, 2005. (Attorney Docket No. A42155.)

On page 14, amend paragraph 0056 as follows:

Fig. 4 relates to an embodiment in which a switch is used to proved an output signal at a fixed, preselected reference angle. An expected value is obtained at that angle using a fresh magnet and that value is stored in memory in a suitable control circuit. During normal operation, the output at this preselected reference angle is compared to the stored expected value at that angle for any deviation from the expected signal. Any such deviation is used as a correction factor applied to the primary output signal. The second electrical output signal can be provided by various means, such as mechanical actuation of a switch at the reference angle, a photo diode and photo detector where the optical signal is inputted by the magnet rotating in front of it or a Hall Effect switch responsive to a preselected window of magnetic field values, for example, when the magnet is in its fully extended extremity.